OIPE JC139
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PATENT & TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):	Suh et al.		
Title:	Photonic Crystal Reflectors/Filters and Displacement Sensing Applications		
Application No.:	10/682,576	Filing Date:	October 8, 2003
Examiner:	Unknown	Group Art Unit:	Unknown
Docket No.:	STAN.078US1	Conf. No.:	Unknown

Certificate of Mailing Under 37 CFR 1.8

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Eileen Bowen

Signature

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Dear Sir:

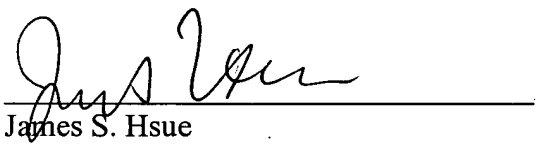
Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicants call the document listed on the enclosed Form PTO-1449 to the Examiner's attention in this patent application.

A copy of the document listed on the accompanying Form PTO-1449 are enclosed.

Citation of this document shall not be construed as (1) an admission that the document is prior art with respect to the invention or inventions claimed in this application, (2) a representation that a search has been made (other than as indicated by any cited document), or (3) an admission that the cited information is, or is considered to be, material to patentability as defined in § 1.56(b).

This information disclosure statement is submitted under 37 C.F.R. § 1.97(b) and consequently no fee should be required. The Commissioner is authorized, however, to charge any fee that may be required, or to credit any overpayment, against Deposit Account No. 502664. This form is being submitted in duplicate.

Respectfully submitted,



1/30/04

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U.S. Department of Commerce, Patent and Trademark	Atty. Docket No.	Application No.
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	STAN.078US1	10/682,576
	Applicant(s)	**Conf. No.**
(Use several sheets if necessary)	Suh et al.	Unknown
	Filing Date	**Group**
	10/8/03	Unknown

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U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

U.S. Published Patent Application Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate

Foreign Patent Documents

							Translation	
		Document	Date	Country	Class	Subclass	Yes	No

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	1	Noda et al., "Polarization Mode Control of Two-Dimensional Photonic Crystal Laser by Unit Cell Structure Design," www.sciencemag.org, August 10, 2001, Vol. 293, pp. 1123-1125.
	2	Loh et al., "Sub-10 cm^3 Interferometric Accelerometer with Nano-g Resolution," *Journal of Microelectromechanical Systems*, Vol. 11, No. 3, June2002, pp. 182-187.
	3	Erchak et al., "Enhanced Coupling to Vertical Radiation Using a Two-Dimensional Photonic Crystal in a Semiconductor Light-Emitting Diode, *Applied Physics Letters*, Vol. 78, No. 5, January 29, 2001, pp. 563-565.
	4	Ryu et al., "Over 30-Fold Enhancement of Light Extraction from Free-Standing Photonic Crystal Slabs with IngaAs Quantum Dots at Low Temperature," *Applied Physics Letters*, Vol. 79, No. 22, November 26, 2001, pp. 3573-3575.
	5	Meier et al., "Laser Action from Two-Dimensional Distributed Feedback in Photonic Crystals," *Applied Physics Letters*, Vol. 74, No. 1, January 4, 1999, pp. 7-9.
	6	Fan, "Temporal Coupled Mode Theory for the Fano Resonance in Optical Resonators," pp. 1-14.
	7	Magnusson et al., "New Principle for Optical Filters," *Appl. Phys. Letter,* 61 (9), August 31, 1992, pp. 1022-1024.
	8	Ochiai et al., "Dispersion Relation and Optical Transmittance of a Hexagonal Photonic Crystal Slab," *Physical Review B*, Vol. 63, 125107-1 to 125107-7.
	9	Solgaard et al., "Deformable Grating Optical Modulator," *Optics Letters*, Vol. 17, No. 9, May 1, 1992, pp. 688-690.

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	10	Hagelin et al., "Scalable Optical Cross-Connect Switch Using Micromachined Mirrors," *IEEE Photonics Technology Letters*, Vol. 12, No. 7, July 2000, pp. 882-884.
	11	Chang-Hasnain, "Tunable VCSEL," *IEEE Journal on Selected Topics in Quantum Electronics*, Vol. 6, No. 6, November/December 2000, pp. 978-987.
	12	Kanskar et al., "Observation of Leaky Slab Modes in an Air-Bridged Semiconductor Waveguide with a Two-Dimensional Photonic Lattice," *Appl. Phys. Lett.*, 70 (11), March 17, 1997, pp. 1438-1440.
	13	Astratov et al., "Resonant Coupling of Near-Infrared Radiation to Photonic Band Structure Waveguides," *Journal of Lightwave Technology*, Vol. 17, No. 11, November 1999, pp. 2050-2057.
	14	Fan et al., "Analysis of Guided Resonances in Photonic Crystal Slabs," *Physical Review B*, Vol. 65, 235112-1 to 235112-8.
	15	Hocker et al., "The Polychromator: A Programmable MEMS Diffraction Grating for Synthetic Spectra," *Solid-State Sensor and Actuator Workshop, Hilton Head Island, South Carolina*, June 4-8, 2000, pp. 89-92.
	16	Boroditsky, "Spontaneous Emission Extraction and Purcell Enhancement from Thin-Film 2-D Photonic Crystals," *Journal of Lightwave Technology*, Vol. 17, No. 11, November 1999, pp. 2096-2112.

Examiner	Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.